

Reference: Ross, W. H. 1915. The Chemical Composition of the Water of Salton Sea and its Annual Variation in Concentration. Pages 37 - 41 in H. T. Cory, The Imperial Valley and the Salton Sink. John J. Newbegin. San Francisco, CA. Document downloaded from the Redlands Institute Salton Sea Database website (www.institute.redlands.edu/salton/library.html).

Element or Compound	Weight Percents of Dissolved Minerals					
	Lake Forming Salton Sink Salt Beds	Salton Sea, 1907	Salton Sea, 1913	Colorado River	Great Salt Lake	Ocean
Na	33.14%	31.29%	32.30%	19.75%	33.39%	30.59%
K	0.30%	0.65%	0.34%	2.17%	1.08%	1.11%
Ca	1.37%	2.80%	1.97%	10.35%	0.42%	1.20%
Mg	1.55%	1.81%	1.62%	3.14%	2.60%	3.72%
AlO ₂ , FeO ₂		0.02%	0.01%			
SiO ₂		0.26%	0.16%	3.04%		
Cl	52.62%	47.83%	47.38%	19.92%	56.54%	55.29%
Br	trace	trace				0.19%
SO ₄	11.00%	13.41%	12.46%	28.61%	5.97%	7.69%
CO ₂			1.13%			
CO ₃		1.85%		13.02%		0.21%
HCO ₃			1.57%			
Other		0.08%	1.06%			
Salinity, ppm		3,553.9	9,699.6	695.9	195,580.0	35,190.0

Composition of lake forming Salton Sink residual salt beds extrapolated by salt balance difference between Salton Sea in 1907 and Colorado River water.